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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,809	06/27/2003	Leonard Katz	300622004810	6321
25225 MORRISON A	7590 03/07/200 EFOERSTER LLP	8	EXAM	IINER
12531 HIGH I	BLUFF DRIVE		ROBINSON, HOPE A	
SUITE 100 SAN DIEGO.	CA 92130-2040		ART UNIT	PAPER NUMBER
,			1652	
			MAIL DATE	DELIVERY MODE
			03/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/607,809	KATZ ET AL.	
Examiner	Art Unit	
HOPE A. ROBINSON	1652	

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The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of the communication. If NO period for reply is specified above, the macrimum statutory period we have a superior of the provision of 37 CFR 1.13 after the mailing aemed patent term adjustment. See 37 CFR 1.70(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	
Status			
N Responsive to communication(s) filed on 28 Ja N This action is FINAL. 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ce except for formal matters, pro		e merits is
Disposition of Claims			
4) Claim(s) 2.7-9 and 17-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to.			
Application Papers			
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 23 October 2004 is/are: Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examination.	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	a 37 CFR 1.85(a). jected to. See 37 C	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. In have been received in Application of the process of the	on No ed in this National	Stage
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	

 Notice of References Cited (PT) 	O-892)
2) Notice of Draftsperson's Patent	Drawing Review (PTO-948)
3) Information Disclusure Statemer	rtis) (PTO/S6/06)

4)	Interview Summary (PTO-413)
	Paper No(s)/Mail Date
	Notice of Informal Patent Applic
6)	Other:

Paper No(s)/Mail	Date	`	

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DETAILED ACTION

Application Status

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 31, 2007 has been entered.
- 2. The amendment filed on January 28, 2008 has been received and entered.

Claim Disposition

3. Claims 2, 7-9 and 17-19 are pending and are under examination.

Specification

4. The claims are objected to because of the following informalities:

Claim 1 is objected to because the acronyms "ccr" and "icm" do not have the spelled out meaning in the claim. In addition for clarity and precision of claim language it is suggested that item (b) of claim 2 is amended to read "a recombinant gene encoding crotonyl Co A reductase (ccr) selected from the group consisting of, a ccr from

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Streptomyces cinnamonensis and Streptomyces collinus; and an icm from Streptomyces cinnamonensis".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 2, 7-8 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katz et al. (U.S. 6,004,787, December 12, 1999) in view of Stass et al. (PNAS, vol. 95, page 7305-7309, June 1995).

Katz et al. teach the use of vectors and host cells in a method to produce novel

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polyketide structures by designing and introducing specified changes in the DNA governing the synthesis of the polyketide accomplished by introducing one or more specified changes into the DNA sequence, such as substituting modules (see column 2). However, Katz et al. is silent on an acyl transferase domain specific for ethylmalonyl CoA. In so far as Katz et al. does not teach the substitution of methyl for ethyl, Stass et al. teach ethyl-substituted *erythromycin* and two or more extender modules with AT domain specificity (see page 7305). Stass et al. disclose the construction of hybrid PKSs through replacement of AT domains with those that specify different starter or extender units (page 7305).

Therefore, it would have been obvious to one of ordinary skill in the art to arrive at the claimed invention as a whole because Katz et al. indicates that modules can be sop out for each other and Stass et al. demonstrates the replacement of methyl for ethyl. One of ordinary skill in the art would have been capable of applying this known method of substitution of modules as disclosed in Katz et al. to achieve the replacement as claimed and the results would have been predictable. The Supreme Court in KSR noted that if the actual application of the technique would have been beyond the skill of one of ordinary skill in the art, then using the technique would not have been obvious. Therefore, the claimed invention is *prima facie* obvious.

Response to Arguments

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6. The response filed has been considered and applicant's arguments are moot as the rejections of record have been withdrawn. However, note that a new ground of rejection has been instituted for the reasons set forth above, under 35 U.S.C. 103.

Conclusion

7. No claims are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hope A. Robinson whose telephone number is 571-272-0957. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat T. Nashed, Ph. D., can be reached at (571) 272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hope Robinson, MS
Primary Examiner

/Hope A. Robinson/
Primary Examiner, Art Unit 1652

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